

ABSTRACT OF THE DISCLOSURE

A hydraulic fluid flow passage has a controlled restriction disposed within the passage. The restriction includes a first filter, a second filter and a plurality of particles disposed between the two filters. The particles are either dielectric particles or they are magnetizable particles. The dielectric particles create an electro-rheological fluid between the filters and the magnetizable particles create a magneto-rheological fluid between the filters. The arrangement for the dielectric particles is controlled by an electric field and the arrangement for the magnetizable particles is controlled by a magnetic field.